

**GRIPPER KIT FOR BOWLING BALL LIFT AND
RETURN MECHANISM**

ABSTRACT OF THE DISCLOSURE

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A gripper kit for a vertical-type bowling ball lift and return mechanism that is suited for the lifting and handling of bowling balls covered with various amounts and types of oil. The kit comprises a combination of an endless belt, a tension bracket, a pair of track rail covers, and tapered and specially
10 designed thimbles to guide and facilitate delivery of the ball into the channel between the endless belt and the outer surface of the track rails. The thimbles are tapered so as to ensure consistent and smooth entry of the bowling ball into the conveying belt area. During operation the bowling ball is conveyed along the channel with minimal slippage irrespective of the amount of oil that
15 accumulates on the bowling ball.